YUVARAJ K

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SUMMARY

Cloud, DevOps Engineer, Full Stack MERN, and .NET Developer skilled in **cloud infrastructure**, **automation**, **CI/CD**, **Kubernetes**, **infrastructure as code (IaC)**, and **backend microservices**. Experienced in **building scalable applications**, **improving system reliability**, and developing **robust solutions** with **.NET Core**, **MVC**, and **MERN stack**. Focused on **streamlining workflows**, **enhancing performance**, and delivering **maintainable, user-centric applications**.

EDUCATION

Dhanalakshmi Srinivasan Engineering College (Autonomous) - Perambalur   Oct 2021 – May 2025
B.E. Computer Science Engineering - **9.13 CGPA**

PROFESSIONAL EXPERIENCE

RedSun Innovations Technologies Pvt Ltd, Tuticorin,TN: Cloud DevOps Intern   Dec 2024 – June 2025
- Guided the **senior DevOps engineer at Everway (UK)** on **automation** and **Cloud infra optimization**.
- Managed **AWS infrastructure** with **Terraform** (tfstate per env); built 5+ reusable **modules** and managed **IAM access** for 20+ teams across 50+ users using **AWS Identity Center**.
- Created 2+ reusable **CI/CD templates** in **Azure DevOps** for **.NET and NodeJS backend microservices**, cutting setup time for **Developer team by 60%**.
- Automated the **audits** of RDS/Beanstalk for **.NET and MERN Stack applications** across 10+ AWS accounts using shell scripts; enforced custom **WAF rules**.
- Collaborated with a **Principal DevOps Engineer** at **Pega Systems (Poland)** to set up a **Grafana dashboard** for monitoring **GCP Vertex and Gemini AI services**.

BillionBytes, Perambalur, Tamilnadu: Full-Stack Intern   Sept 2024 – Nov 2024
- Set up **GitHub Actions** for **MERN Stack** repos and Docker workflows; fixed 10+ **Docker issues** and boosted CI speed by 25%.

TECHNICAL SKILLS

Cloud Computing: AWS, Azure
Database: MySQL, PostgreSQL, MongoDB
Development: JavaScript, NodeJS, ExpressJS, ReactJS, .NET Core, MVC, Web API, EF Core, RESTful API
DevOps Tools: Linux, Git, Docker, Kubernetes, Terraform, Prometheus, Grafana, GitHub Actions, Azure DevOps, Kafka, ArgoCD, ELK Stack, Snyk Scan, Postman, Python, Golang, Bash, PowerShell, YAML

CERTIFICATIONS

AWS Academy Cloud Architecting: AWS Academy Graduate
Cyber Threat Management: Cisco networking Academy
Cloud Practitioner: AWS Cloud Quest (AWS Skill Builder)
Networking Basics: Cisco networking Academy

PROJECTS

1. DevSecOps Project – Random Quote Generator
Developed a microservices app that generates random anime quotes with automated **CI/CD Pipeline, security scanning, GitOps** deployment on **Kubernetes** and **secret management** via HashiCorp Vault. Integrated **monitoring** with Grafana
- **Tech stack:**HTML, CSS, JS, Go, Terraform, Docker, Snyk Scan, Grafana, GitHub Actions, HashiCorp Vault, ArgoCD, Slack, AWS (EC2, CloudWatch, VPC, EKS).
- GitHub Repository link - **GitHub**

2. MovieWatchList – Full-Stack .NET Application
Full-stack Movie Watchlist app to **view, add, edit,** and **manage** movies. Backend uses **ASP.NET Core Web API** for

CRUD Operations with **EF Core for database management and migrations** and **automated tests;** frontend uses **Next.js** for a modern responsive interface.

- **Tech stack:**Next.js, React, ASP.NET Core Web API, EF Core, PostgreSQL, Docker, xUnit
- GitHub Repository link - **GitHub**

3. Ethereum-Based KYC Verification Framework

Decentralized KYC verification system on a **private Ethereum blockchain** to automate identity **checks, enhance security,** and improve bank customer onboarding. Streamlines processes using **smart contracts, PoA consensus,** and **real-time monitoring**.

- **Tech stack:**Private Ethereum Blockchain, Solidity (Smart Contracts), Geth, MetaMask, Ether.js, Docker, Minikube, Prometheus, Grafana
- GitHub Repository link - **GitHub**

4. SecureEdgeOps – Cloud-Native Threat Detection Mitigation

Built a cloud-native security solution that detects and **blocks malicious IPs** in real time using **honeypots** and **AWS WAF automation**. Integrated end-to-end **monitoring, logging** and **AWS-native automation** for over 35% improved network security.

- **Tech stack:**AWS S3, CloudFront, WAF, Lambda, CloudTrail, EventBridge, Systems Manager Parameter Store, Suricata, Wazuh, Terraform, Nmap
- GitHub Repository link - **GitHub**

5. Log Analysis System (Kafka-Based)

Scalable log analysis system with **login and register microservices**. Processes real-time user activity **logs via Kafka** and stores them in MongoDB. Deployable on **Kubernetes** with Helm and **automated via Terraform**.

- **Tech stack:**Go (Web API Microservices), MongoDB, Kafka, Helm, Terraform, Minikube
- GitHub Repository link - **GitHub**

6. Elastic-Cloud-Solution

A **resilient** and **scalable cloud architecture** using **VPC peering, shared storage, auto scaling,** and load balancing. Enables secure **cross-VPC communication, dynamic resource management,** and seamless access to private instances via Session Manager. Demonstrated both through the management console and **IaC automation**.

- **Tech stack:**AWS (VPC Peering, EFS, SSM, EC2, ALB), Shell Scripts,Terraform.
- GitHub Repository link - **GitHub**